

36546

S/081/62/000/006/080/117

B167/B101

11.9700

AUTHORS: Monastyrskiy, V. N., Pufayev, A. A., Perel'miter, M. S.

TITLE: Synthesis and production technology of the multicomponent additive VNII NP-360 for engine lubricating oils

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 539, abstract 6M248 (Sb. "Prisadki k maslam i toplivam" M. Gostoptekhzdat, 1961, 128-133)

TEXT: The starting material for the synthesis of the components of the additive VNII NP-360, consisting of Ba alkyl phenolate and Zn dialkyl phenyl dithiophosphate in the ratio of 5:2 parts by weight, is the alkyl phenol obtained by alkylating phenol with olefins containing 8-12 carbon atoms. Ba alkyl phenolate has wetting properties. It is prepared by treating the alkyl phenol with $\text{Ba}(\text{OH})_2$. Zn dialkyl phenyl dithiophosphate, an antioxidant and a wear and corrosion inhibitor, is prepared by the reaction of alkyl phenol with P_2S_5 , followed by treatment of the product with ZnO . Both processes are carried out in an oil diluent which lowers the viscosity of the medium. Test-bench trials of the additive

Card 1/2

Synthesis and production technology of ... S/081/62/000/006/080/117
B167/B101

VNII NP-360 on engines of various types (A-35 (D-35), 242 -204 (YAAZ-204), etc.) and also operating trials on Diesel engines 2-100 (2D 100) and tractor engines have indicated that this additive is more effective than conventional additives and can be recommended, in the first instance, for Diesel engines operating with Diesel fuel containing sulfur. A production diagram is suggested. Abstracter's note: Complete translation.]

X

Card 2/2

PEREL'MITER, V.I., inzh.; ZYBIN, Yu.P., prof.

Kinematic study of the mechanism of the basic tuning of the
ASG-3 grading machine. Izv.vys.ucheb.zav.; tekhn.prom.
no.6:57-62 '61. (MIRA 14:12)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii izdeliy iz. koshi.
(Shoe machinery---Testing)

PEREL'NITER, V.I., inzh.

Kinematics of the grading machine manufactured by the Saratov Machinery Plant during its operation with a corrector. Izv. vys. ucheb. zav.; tekhn. leg. prom. no.3:152-158 '63.

(MIRA 16:7)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii izdeliy iz kozhi.
(Saratov—Shoe machinery)

SHABANOV, V.M., inzh.; PEREL'MITER, V.I., inzh.

Accelerating the working parts of agricultural machines
operated by the hydraulic drive of a tractor. Trakt. i sel'.
khozmash. no.10:13-16 O '64. (MIRA 1972)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny
institut.

PEREL'NITER, V.I., inzh.; ZYBIN, Yu.P., doktor tekhn.nauk, prof.

Method for investigating the deformation of shoe uppers. Izv.vys.
ucheb.zav.; tekhn.prom. no.5:64-69 '60. (MIRA 13:11)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii izdeliy iz kozhi.
(Shoe manufacture) (Strength of materials)

KLYACHKO, L.I.; KONEVA, K.G.; PEREL'MUTER, K.S.; BAKAYEV, A.M.

Behavior of impurities in the production of compact tungsten.
TSvet. met. 38 no.2:77-83 F '65.

(MIRA 18:3)

"ACC NR: /P6024892

SOURCE CODE: UR/0056/66/051/001/0309/0326

AUTHOR: Perelomov, A. M.; Popov, V. S.; Terent'yev, M. V.

ORG: Institute of Theoretical and Experimental Physics (Institut teoreticheskoy i eksperimental'noy fiziki)

TITLE: Ionization of atoms in a varying electric field. II.

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 309-326

TOPIC TAGS: ionization, ionization probability, field ionization, multiphoton ionization, *ELECTRIC FIELD, ATOM*

ABSTRACT: Ionization produced in a system bound by short-range forces induced by an electromagnetic wave with arbitrary elliptic polarization is investigated. In the case of a weak field $F \ll F_0$, $\omega \ll \omega_0$ (F_0 is the intra-atomic field, ω_0 is a characteristic atomic frequency) formulas are derived for the ionization probability expressed as a sum of probabilities of multi-photon process. A formula is also obtained for the momentum spectrum of the emitted electrons. Transition to the adiabatic approximation for the case of low frequencies ($\gamma \ll 1$) is considered. Asymptotic formulas are obtained for the total ionization probability in the "anti-adiabatic" case ($\gamma \gg 1$). It is shown that with an increase in ellipticity ϵ of the incident light the ionization probability decreases, other conditions being equal.

Card 1/2

ACC NR: IP6024892

In the limiting cases of $\epsilon = 0$ (linear polarization) and $\epsilon = \pm 1$ (circular polarization) the formulas obtained are equal to those derived by the authors in an earlier paper (Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, 1966, 1393). A simple quasiclassical method for obtaining the main (exponential) factor in the formula for the ionization probability is presented. Some properties of the solutions of the Shroedinger equation for potentials with a Coulomb tail are discussed. Orig. art. has: 71 formulas and 6 figures. [CS]

SUB COND: 20/ SUBM DATE: 16Feb66/ ORIG REF: 010/ OTH REF: 004

Card 2/2

I 112-8-65 EWT(a)/EWA(a)/EWP(t)/EWP(k)/EWP(z)/EWP(b) PF-4 MJW/ID

ACCESSION NR: AR5005689

E/0276/64/000/009/B097/B098

22

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya. Svodnyy tom, Abs. 9B631

B

AUTHOR: Perelomov, N. G.

TITLE: The stressed-strained state of metal during restricted cutting

CITED SOURCE: Uch. zap. aspirantov i soiskateley. Leningr. politekhn. in-t, Mashinostroyeniye. L., 1963, 94-100

TOPIC TAGS: metal machining, chip stress analysis, cutting parameter, restricted cutting / hard alloy VK6M, steel No. 40, 1Kh13 steel, 1Kh18N9T steel, 18KhNVA steel, 15G2KhNFA steel

TRANSLATION: The article presents data on the methodology and results of an experimental study of the stressed-strained state of metal converted to chips during restricted cutting. No. 40, 1Kh13, 1Kh18N9T, 18KhNVA and 15G2KhNFA steels were turned in a lengthwise cut. The cutters were tipped with hard alloy VK6M. The cutting speed v , side cutting edge angle ϕ , back rake angle γ , cutting edge helix angle λ and the ratio of cut width to depth b/a were varied over a wide range.

Card 1/2

1238-55

ACCESSION NR: AR5105689

Characteristics of the stressed-strained state were determined in cutting tests from values of coefficient m , calculated in turn from expressions of primary true strain in metal converted to chips according to

$$m = \frac{\delta_1 - \frac{\delta_1 + \delta_2}{2}}{\frac{\delta_1 - \delta_2}{2}}, \quad (1)$$

where δ_1 , δ_2 , and δ_3 are primary true strains. The latter were defined from shrinkage in chip thickness K_a , width K_t , and length K_e by using the expressions:

$$\begin{aligned} \delta_1 &= \ln K_a; \\ \delta_2 &= \ln K_t; \\ \delta_3 &= \ln K_e. \end{aligned} \quad (2)$$

Direct measurements of chips were used to define coefficients of chip shrinkage incorporated in these expressions. It was found that the value of coefficient m and the type of stressed-strained state do not vary with a change in v , ϕ , γ or λ . The type of stressed-strained state is determined unequivocally by the ratio of cut width to its depth b/a , varying from compression ($m=1$) at low values to shear ($m=0$) at high values of that ratio. Plastic flow retains a similar character in metal converted to chips by free or restricted cutting. Bibl. with 4 titles; 5 illustrations. M. Eydinov.

SUB CODE: IE, MM

ENCL: 00

Card 2/2 *me*

MOSKETI, K.V.; PEREL'MUTER, Ye.A.

Blood transfusion in mental illness. Trudy Kiev. nauch.-issl. inst.
perel. krovi i nestlozh. khir. 3:12-15 '61.

(MIRA 17:10)

1. Odesskaya psikhonevrologicheskaya bol'nitsa i kafedra psikhatrii
Odesskogo meditsinskogo instituta imeni Pirogova.

KOCHO, V.S., doktor tekhn. nauk; GRANKOVSKIY, V.I., kand. tekhn. nauk;
PERELOMA, V.I., inzh.; DRYAPIK, Ye.P., inzh.; TEPLITSKIY,
B.M., inzh.; GLOBA, N.I., inzh.; STREL'CHENKO, Yu.G., inzh.

Heating open-hearth furnaces with hot natural gas. Met. i
gornorud. prom. no.5:65-66 S-0 '63. (MIRA 16:11)

1. Kiyevskiy politekhnicheskiy institut (for Kocho,
Grankovskiy, Pereloma). 2. Kommunarskiy metallurgicheskiy
zavod (for Dryapik, Teplitskiy, Globa, Strel'chenko).

PEREL'MUTER, A., inzh.

Towers for radio relay lines with large-surface antennas. Prom. stroi. i
inzh. soor. 5 no.2:47-48 Mr-Ap '63. (MIRA 16:4)
(Radio relay systems) (Radio—Antennas)

SECRET

1. The first of the two main points is that the

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PERELMUTER, A. ; WIECZOREK, S.

PERELMUTER, A. ; WIECZOREK, S. A surveying establishment in the struggle for lower
cost of operation. p. 292

Vol. 12, no. 8, Aug. 1956
PRZEGLAD GEODEZYJNY
SCIENCE
Warszawa, Poland

So; East European Accession, Vol. 6, no. 2, Feb. 1957

PEREL'MUTER A. L.

'USSR/Chemical Technology - Chemical Products and Their Application. Leather. Fur.
Gelatin. Tanning Agents. Technical Proteins, I-29

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63793

Author: Rokhvarger, O. D., Purim, Ya. A., Perel'muter, A. L.

Institution: None

Title: Finishing of Leather Tissue and Hair Cover of Sheepskin Furs

Original

Periodical: Nauch.-issled. tr. N.-i. in-ta mekhovoy prom-sti, 1955, No 6, 82-96

Abstract: A study was made of the finishing process of undyed sheepskin produced with dressing of the hair layer and optimal conditions of performance of each operation were determined. It was found that the present system of drying in an annular frame drier, results in a moisture content of the derma, upon completion of drying, is below the equilibrium level (7-9% in lieu of 12-14%). In such a case first tumbling should be done with sawdust of 35-40% humidity. Duration of tumbling for sheepskins of group I is of 2 hours, of group II, 2.5 hours. Amount of sawdust is 60% by weight of the pelts. Addition of fat solvents

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Leather. Fur.
Gelatin. Tanning Agents. Technical Proteins, I-29

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63793

Abstract: during first tumbling produces no effect since fat content of the hair remains the same after tumbling with and without solvent. Turpentine is more effective than gasoline. Amount of turpentine in second tumbling should be not less than 5%, that of gasoline not less than 7% of the weight of pelts. Otherwise cleaning of the fur is less effective. Increase of the amount of sawdust does not improve cleaning of the fur. Use of beechwood sawdust gives the best results. It is of high specific gravity and therefore its volume is smaller by 20% than that of birch wood sawdust. Optimal particle size of sawdust in tumbling is of 1-3 mm. On drying of the sheepskins to an optimal moisture content of leather tissue (12-14%) moistening prior to softening is not required and the pelts are worked in the drum without sawdust. Effects of moisture content of leather tissue on softening have been investigated. For machine stretching the moisture content must be of 12-15%, for pounding 15-17%. First softening should be done on stretching machine. Beating does not improve the quality of the fur and can therefore be omitted. Combing should be done after shearing, with No 12 card clothing, which results in lesser loss of hair.

Card 2/2

PEREL'MUTR, A.S.; KOLOKOLOVA, T.D.

Resistance of elements of medical respiratory apparatus in
pulsating current. Nov, med. tekhn. no.5:23-36 '61.

(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

PEREL'MUTR, A. S.

K raschetu razbega gidrosamoleta. Moskva, 1936. 32 p., diags.
(TSAGI. Trudy, no. 255)
Summary in English.
Bibliographical footnotes.
Title tr.: Seaplane take-off characteristics.

QA911.M45 no. 255

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

~~PEREL'MUTER~~, A.S.

Apparatus for atomizing liquid and powdered drugs. Med.prom.
12 no.6:48-51 Je '58 (MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.

(MEDICAL INSTRUMENTS AND APPARATUS)

(ATOMIZATION)

PEREL'MUTER, A.S.

VNIIMI universal inhaler. Med. prom. 11 no.2:54-55 P '57
(MIRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.
(INHALATION (THERAPEUTICS))

PEREL'MITR, A.S.

Concentration of carbon dioxide in anesthetic apparatus.
Nov. med. tekhn. no.3:10-16 '65. (MIRA 19:1)

PEREL'MUTR, A.S.; CHERKASOVA, A.A.

Ensuring safety in anesthesia. Nov. med. tekhn. no.3:12-78 '65.
(MIRA 19:1)

PEREIMUTER, Abram, inz.

Remarks concerning the technical instruction of the Ministry
of Agriculture. Przegl geod 35 no. 12: 511-513 D '63.

KUTSENKO-SKOPINA, R.G., kand.med.nauk; PEREL'MUTER, D.L.

Gastroduodenal examination(simultaneous examination of the
gastric juice and bile). Sov.med. no.3:112 '62. (MIRA 15:5)

1. Iz Evpatoriyskogo territorial'nogo kurortnogo upravleniya.
(GASTRIC JUICE) (BILE)

PEREL'MUTER, D. L.; MITROSHINA, L. I.

Treatment of hypertension with hypothiazide. Vrach. delo no.6:150
Je '62. (MIRA 15:7)

1. Yevpatoriyskoye kurortnoye upravleniye professional'nykh
soyuzov i gorodskaya poliklinika.

(HYPERTENSION) (THIADIAZINE)

PEREL'MUTER, D.L.; SOKOLOVSKAYA, V.G. (Yevpatoriya)

Effect of "Moinaki" mineral water on the secretory and
evacuatory function of the stomach. Vrach. delo no.8:
127-128 Ag'63. (MIRA 16:9)

1. Sanatoriy "Primor'ye" Yevpatoriyskogo territorial'nogo
kurortnogo upravleniya professional'nykh soyuzov, (nauchnyy
rukovoditel' - prof. M.V.Kokhanovich).
(YEVPATORIYA—MINERAL WATERS) (STOMACH—SECRETIONS)

KUTSENKO-SKOPINA, R.G., kand.med.nauk; GENKINA, Ye.B.; PEREL'MUTER, D.L.

Laboratory diagnosis and treatment of vaginal trichomoniasis at
the Yevpatoriya health resort; preliminary report. Sov.med. 24
no.12:99-108 D '60. (MIRA 14:3)

1. Iz sanatoriya "Primor'ye" (glavnyy vrach I.P.Rutkovskiy) Yevpatoriyskogo territorial'nogo upravleniya kurortov.
(TRICHOMONIASIS) (VAGINA—DISEASES)

PEREL'MUTER, D.L.

Results of the treatment of infectious nonspecific (rheumatoid)
polyarthrititis at Yevpatoriya Health Resort. Sbor. nauch. rab. vrach.
san.-kur. uchr. profsoiuzov no.1:173-177 '64.

(MIRA 18:10)

1. Yevpatoriyskiy territorial'nyy sovet po upravleniyu kurortami
professional'nykh soyuzov (nauchnyy rukovoditel' prof M.V.Kokhanovich).

PEREL'MUTER, G.I.

Sums with characters. Usp. mat. nauk 18 no.2:145-149 Apr-May '63.
(MIRA 16:8)
(Functions, Entire)

PEREL' MUTER, (Y) (M)

PHASE I RCE INFORMATION SVU/5203

- Nauchno-tekhnicheskaya konferentsiya po razvitiyu i sovershenstvovaniyu avtomaticheskogo upravleniya proizvodstvennykh i tekhnicheskimi administratsiyami, 1959.
- Voprosy mashinostroyeniya; trudy konferentsii... (Problems of Machine Building; Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Khar'kov Economic Administrative Region) no. 3. Kiyev, Izd-vo AN UkrSSR, 1960. 182 p. 1,500 copies printed.
- Sponsoring Agency: Akademiya nauk Ukrainyakh SSSR. Soviet po izucheniyu proizvoditel'nykh sil UkrSSR.
- Editorial Board: Resp. Ed.: I.A. Vasilenko, Academician of the Academy of Sciences UkrSSR; A.A. Gorbachov, Corresponding Member, Academy of Sciences UkrSSR; I.M. Postnikov, Doctor of Technical Sciences; S.M. Kutsenko; A.I. Akzenko, Candidate of Technical Sciences; G.M. Davydov, Candidate of Economic Sciences; Ed. of Publishing House: S.D. Lepily; Tech. Ed.: R.A. Bunty.
- PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, farmhand workers, and planning organizations.
- COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; the development of new accessories for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into founding and die forging. No personalities are mentioned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.
- Glazov, E.M. [Doctor of Technical Sciences at Khar'kov Polytechnical Institute]. The Present State of and Outlook for the Development of Engine Building 44
- Koval', I.A. [Chief Designer at the GZED (Central Research, Specialized Construction and Repair Design Bureau) State Special Engineering Bureau] in the "Serp i Molot" Plant]. Work Done by the "Serp i Molot" Plant in Khar'kov and by Its GZED in the Design of New Tractors and Combine Engines 61
- Kashuba, R.P. [Chief Designer at the Khar'kovskiy traktorny zavod (Khar'kov Tractor Plant)]. The All-Purpose T-75 Caterpillar Tractor 68
- Garf, M.E., and G.Yu. Kravchenko [Candidates of Technical Sciences at the Institut litseynogo proizvodstva AN UkrSSR (Institute of Founding AS UkrSSR)]. Investigating the Dynamic Strength of Certain Constructions in the Tractor and Transportation Industries 75
- Postnikov, I.M. [Doctor of Technical Sciences at the Institut elektromekhaniki AN UkrSSR (Electromechanical Institute AS UkrSSR)]. Basic Prospects for Research in the Field of Design of New Types of Electric Machinery 67
- Perel'muter, N.M. [Candidate of Technical Sciences at the Khar'kov Branch of "Yashpurnyelektromekhanika". Prospects for the Development of Electric Drives 92
- Problems of Machine Building (Cont.) SVU/5203
- Zil'berman, R.Z. [Candidate of Technical Sciences at the Khar'kov Branch of "Yashpurnyelektromekhanika". The Use of Computers for Planning Production Processes 96
- Sorochenko, V.Ye. [Chief Equipment Designer at the Khar'kovskiy elektromekhanicheski zavod (Khar'kov Electromechanical Plant)]. Trends in the Development of Electrical-Apparatus Manufacture at the Khar'kov Electromechanical Plant 96
- Terebik, G.P. [Candidate of Technical Sciences at L'vov "Krasnyy Metallist" (The Krasnyy Metallist Plant)]. Equipment for Automation in Coal Mining 105
- Gon'yan, Ye.P. [Engineer at the Khar'kov Branch of "Yashpurnyelektromekhanika". The Use of Rectifiers in Electric Power 115
- Lomakin, V.F. [Engineer at the Khar'kov Electromechanical Plant]. The Manufacture of Industrial Rectifiers 127

PEREL'MUTER, G.I.

Evaluation of a sum containing primes. Dokl.AN SSSR 144,
no.1:48-51 My '62. (MIRA 15:5)

1. Predstavleno akademikom I.M.Vinogradovym.
(Polynomials) (Number, Prime)

L 2956-65 EWP(m)/EWT(m)/EPF(n)-2/EWP(t)/EWP(k)/EWP(b) PI-4/PU-4 IJP(c)

ACCESSION NR: AP5005526

JD/JG

S/0136/65/000/002/0077/0083

AUTHOR: Klyachko, L. I.; Koneva, K. G.; Perel'muter, K. S.;
Bakstev, A. M.

40
B

TITLE: The behavior of impurities in the tungsten consolidation

SOURCE: Tsvetnyye metally, no. 2, 1965, 77-83

TOPIC TAGS: tungsten, solid tungsten, tungsten consolidation, tungsten impurity, impurity elimination

ABSTRACT: Behavior of Ca, K, P, As, Fe, Al, Si, and Mo impurities during consolidation of W has been investigated by the method of tagged atoms. Tungsten powder obtained by a two-stage reduction of tungsten anhydride with hydrogen was compacted and the compacts were sintered at 1100C in a hydrogen atmosphere, and welded at 1550 or 2600C. The density of sintered compacts was 86% of the theoretical; welding increased the density to 92% and resulted in a 5% shrinkage along the ingot length. Tests showed that the Ca content was not affected by reduction, but decreased by 40% by welding at 1550C and by 55-60% by welding at 2600C. The content of combined K (as

Card 1/3

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ACCESSION NR: AP5005526

ammonium-potassium paratungstate) also was unchanged by reduction, but dropped by 50 and 63—65% in low- and high-temperature welding. However, 20—25% of free K (present as potassium chloride) evaporated during reduction, sintering further reduced the K content to 30—35%, and the remaining portion evaporated during low-temperature welding. About 80% As and 25% P evaporates during reduction, and only traces of both elements remain after welding. Except for high-temperature welding which removes about 28% Fe, all other operations have no effect on the Fe content in solid W. The Mo content was not affected by reduction; it decreased by 13—16% in low-temperature welding; high-temperature welding had no additional effect. Welding lowers the content of Si and Al to one hundredth and one third, respectively. Thus, the impurities which accompany W can be divided into three groups. 1) Volatile impurities — As, P, (probably S) and potassium (as chloride) — which form hydrides and begin to evaporate during reduction. 2) Impurities which are removed by low-temperature welding — Ca, K (chemically bound with W), Si, and Al; their content decreases appreciably at temperatures up to 1550C. 3) Hard-to-evaporate impurities, such as Fe, whose content begins to decrease at temperatures above 1550C and then only slightly. Mo is a nonvolatile impurity in W. Orig. art. has: 2 figures and 1 table.

Card 2/3

[MS]

L 29 56-65

ACCESSION NR: AP5005526

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 004

OTHER: 000

ATD PRESS: 3195

Card 1/3

PEREL'MUTER, M.M.

Effect of the electric drive system on the dynamic stresses
in a resilient link. Izv. vys. ucheb. zav.; elektromekh. 7
no.6:698-703 '64. (MIRA 17:7)

PEREL'MUTER, M.M.

25306 Perel'muter, M.M. O Somhopsikhoterapii. (Doklad Na 111 Vsesoyuz. S''Ezde
Nevropatologov & Psikhatriya, 1949, No. 4, S.54-57

SO: Letopis' No. 33, 1949

PEREL'MUTER, M.M.

Some theoretical problems of somnopsychotherapy. Fiziol.shur.[Ukr.]
2 no.4:62-70 J1-Ag '56. (MIRA 9:10)

1. Kiyevskaya psikhiatricheskaya bol'nitsa imeni akademika I.P.Pavlova.
(SLEEP--THERAPEUTIC USE) (PSYCHOTHERAPY)

2/18/59/000/04/080/030
E031/EA15

AUTHOR: Solotukhin, V.E.

TITLE: The Scientific-Technical Conference at Kharkov
Aviation Institute

PERIODICAL: Izvestiya Vsesoyuznogo nauchnoy aviatsonnoy
kongressa, 1959, No 1, pp 161-165 (USSR)

ABSTRACT: In May 1959, the 16th Conference of Scientific and
Teaching Staff took place.

Mathematics and Mechanics Section. The following papers
were read: "A Spectral Representation of the Theory
of Aerodynamic Turbulence" by Candidate of Physical
and Mathematical Sciences G.M. Zhuravskiy; "Some
Problems in the Theory of Aerodynamic Turbulence" by
Assistant G.M. Zhuravskiy; "Existence, Uniqueness and
Correctness" by Docent, Candidate of Physical and
Mathematical Sciences M.M. Tikhov; "On the Application
of Bessel and Chebyshev Polynomials to the Solution of Some
Problems in the Synthesis of Four Bar Linkages" by
Docent, Candidate of Physical and Mathematical Sciences
I.I. Gerasimov; "The Influence of the Structural
Properties of Functions on the Convergence of Most
Numerical Methods" by Assistant V.M. Prutchenko; by
Docent, Candidate of Physical and Mathematical Sciences
B.I. Golitskiy.

General Technological Section. The following papers were
read: "The Relation Between the Compton Length of Waves,
the Length of de Broglie Waves and the Acceleration
Potential for High-Energy Particles" by Docent,
Candidate of Physical and Mathematical Sciences
I.Ya. Mintal; "The Problem of Determining the Heat
Transfer Coefficient of Conductors" by Senior Instructor
V.P. Gerasimov; "An Electron-Graphical Method of
Investigating the Structure of Matter" by Assistant
I.I. Zhuravskiy; "On the Results of the VIIIth
Congress of Chemists of the USSR" by
Docent, Candidate of Chemical Sciences E.I. Kretsch,
Electrical and Radiophysics Section.

The following
papers were read: "On the Problem of the
Passage of Transients in an Electric Drive with
Controlled Rectifier" by Docent, Candidate of Technical
Sciences M.P. Lomakin; "The Experimental Determination
of the Reluctance in Synchronous Machines" by Senior
Instructor A.V. Kovalchuk; "An Experimental Method
of Investigating Electric Fields" by Assistant
A.I. Lepelkin; "A Discrete Transformer of Current into
Voltage" by Docent, Candidate of Technical Sciences
G.M. Zhuravskiy; "The Application of Infrared Instruments in Aviation"
by Docent, Candidate of Technical Sciences I.D. Artamonov.

The adaptation of a thermobaric chamber to the
simulation of the sinking of a ship shaft in quicksand
and certain results of investigations to determine the
mechanical characteristics of sand at different
temperatures and humidities" by Docent, Candidate of
Technical Sciences A.V. Elyashenko; "Friction and
Abrasion in Ceramics" by Docent, Candidate of Technical
Sciences G.I. Golitskiy; "The Construction of Multi-
Spectral Radiometers" by Assistant V.A. Kachubsky;
"The Influence of Temperature on the Fatigue of
Threaded Connections" by Assistant V.M. Prutchenko;
"Investigation of Ceramics Under Pressure" by Assistant
A.S. Efremov.

Card 3/11

Card 4/11

FAYNBERG, Yuliy Mironovich; ZELENOV, Anatoliy Borisovich; PEREL'MUTER, M.M.,
otvetstvennyy redaktor; ANDREYEV, S.P., tekhnicheskly redaktor

[Controlling the electric drive of continuous hot rolling mills]
Regulirovaniye elektroprivoda nepreryvnykh stanov gorachei prokatki.
Khar'kov, Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi
metallurgii, 1956. 239 p. (MLRA 9:12)
(Rolling mills--Electric driving)

FAYNBERG, Yuliy Mironovich; PEREL'MUTER, M.M., otv.red.; BELINA, R.A.,
red.izd-va; ANDREYEV, S.P., tekhn.red.

[Automatic control in cold rolling] Avtoregulirovanie pri
kholodnoi prokatke. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry
po chernoi i tsvetnoi metallurgii, 1960. 188 p. (MIRA 13:9)
(Rolling (Metalwork)) (Automatic control)

PEREL'MUTER, Moisey Matveyvich, kand.tekhn.nauk, dotsent

Calculation of the electric drive of a cart with suspended
load. Izv. vys. ucheb. zav.; elektromekh. 6 no.8:952-960
'63. (MIRA 16:9)

1. Zaveduyushchiy kafedroy elektrotekhniki Khar'kovskogo
aviatsionnogo instituta.

PEREL'MUTER, Moisey Matveyevich, kand. tekhn. nauk, dotsent

Electrical drives of a truck with suspended load. Izv. vys. uch. zap.,
elektromekh. 8 no. 9:1036-1039 '65. (MIRA 18-10)

1. Zaveduyushchiy kafedroy elektrotehniki Khar'kovskogo
aviatsionnogo instituta.

FEREL'MUTER, Moisey Matveyevich; FAYNBERG, Yu.M., otv. red.; SINYAVSKAYA,
Ye.K., red. izd-va; ANDREYEV, S.P., tekhn. red.

[Electrical ore and coal loader equipment] Elektrooborudovanie rudno-
ugol'nykh peregruzhatelei. Khar'kov, Gos. nauchno-tekhn. izd-vo lit-
ry po chernoi i tsvetnoi metallurgii, 1961. 238 p. (MIRA 14:10)
(Coal-handling machinery)

PEREDVINTSEV, N. N.

Dissertation: "Three-Phase AC Frequency Converter for the Logging Industry." Cand Tech Sci,
Moscow Forestry Engineering Inst, 15 Apr 54. (Vechernyaya Moskva, Moscow, 5 Apr 54)

SO: SUM 243, 19 Oct 1954

PERELMUTER V M

Subject : USSR/Electricity AID P - 949
Card 1/1 Pub. 27 - 18/25
Authors : ~~Perel'muter, K. M.,~~ Kand. of Tech. Sci., and
~~Rodishteyn, L. S.,~~ Eng.
Title : New frequency changer for the lumber industry
Periodical : Elektrichestvo, 10, 78-79, 0 1954
Abstract : The author describes the new PSCh-5 type designed to
supply increased frequency to electric motors used for
saws and other tools. Two diagrams.
Institutions: TsNIIME (Central Scientific Research Institute of the
Ministry of Electric Power Stations) and Plant of the
MEP (Ministry of the Electrical Industry)
Submitted : J1 3, 1954

PERELYGIN, L.M.
PERELYGIN, L.M., prof.; VIKHROV, V.Ye.; red.; SIDOROVA, V.
POPRYADUKHIN, K.A., tekhn.red.

[Wood, its structure and properties] Drev. inovedenie Moskva, Gos.
izd-vo "Sovetskaya nauka," 1957. 361 p. (MIRA 11:2)
(Wood)

PEREPEL'KIN, L. Ye

USSR /Chemical Technology. Chemical Products
and Their Application

I-28

Synthetic fibers

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32747

Author : Perepelkin K. Ye., Meos A. I.

Title : Effect of the Conditions of Deaeration of Viscose
on the Process of Spinning

Orig Pub: Tekstil'naya prom-st', 1956, No 11, 12-13

Abstract: A study was made under plant manufacturing conditions. The deaeration was carried out in vertical tanks of 9-11 m³ capacity. It was found that the process of fiber production depends primarily on the conditions of deaeration. With a decrease of the duration of deaeration the stoppages of the spinnerettes and the instances of

Card 1/2

PEREL'MUTER, N.M.; RODSHEYN, L.S.

Transformer of current frequency for lumbering. Les.prom. 14 no.6:17-18
Je '54. (MLRA 7:6)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki (for Perel'muter).
 2. Zavod imeni Kalinina (for Rodshteyn).
- (Electric transformers)

SERKOV, Vasil'y Vasil'yevich; PEREL'MUTER, N.M., redaktor; PITERMAN, Ye.L., redaktor; SHITS, V.P., tekhnicheskiy redaktor.

[Repair of three-phase asynchronous motors] Remont trekhfaznykh asinkhronnykh dvigatelei. Moskva, Gosstatizdat, 1956. 106 p.
(Electric motors, Induction) (MLRA 9:5)

L: 2/8/66

ACC NO: AR5018683

SOURCE CODE: UR/0196/65/000/007/3010/3010

AUTHOR: Kashechkin, N. I.; Moreyev, A. K.; Perel'mutor, N. M.; Uvarov, N. V.; Shvichov, I. V. 37
3

ORG: none

TITLE: Portable power station "Druzhba" for lighting purposes

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 7355

REF-SOURCE: Lesoskoplust. i lesn. kh-vo. Ref. inform., no. 5, 1965, 8-9

TOPIC TAGS: power generating station, lighting, lighting equipment, electric motor

TRANSLATION: This power station is to supply light and heat up to 1.5 kw and can be used on construction sites, wood clearings, timber conveying points, etc. For primary motive power, a one-cylinder, two-cycle motor is used (from a gasoline-motor saw). Through the reducer, the motor is connected with a generator of 1.7 kw, 220 v and 200 cps (short-circuited and asynchronous). For excitation, a battery of condensers of 24 microfarads is switched in. A diagram of the portable power station and directives for its operation are given. B. Skif-rinson.

SUB CODE: 09/ SUBJ DATE: none ONLY DATE: 2

Card 1/1 *EW*

UDC: 621.311.23:634.0

PEREL'MUTER, N.M.

"Drushba" small portable electric power plant. Prom. energ.
21 no. 1:62-64. Ja '66 (MIRA 19:1)

BLITSHEYN, Aleksandr Zinov'yevich; PIZHURIN, Andrey Abramovich;
PEREL'MUTER, N.M., red.; GOSPODARSKAYA, T.N., red. izd-va;
VDOVINA, V.M., tekhn.red.

[Automated electric drives of woodworking machines] Avtomatizirovannyi elektroprivod derevoobrabatyvalushchikh stankov. Moskva, Goslesbunizdat, 1962. 290 p. (MIRA 16:6)
(Woodworking machinery--Electric driving)

KOROVYAKOVSKIY, Il'ya Grigor'yevich, dots.; KAPUSTIN, Viktor Aleksandrovich; ROSHKOVSAYA, Nona Petrovna; SHITIKOV, Mikhail Gavrilovich; PEREL'MUTER, N.M., red.; PLESKO, Ye.P., red.izd-va; VDOVINA, V.M., tekhn. red.

[Electric power supply of lumbering enterprises]Elektro-snabzhenie lesozagotovitel'nykh predpriatii. Pod obshchei red. I.G.Koroviakovskogo. Moskva, Goslesbumizdat, 1962. 171 p.
(MIRA 16:4)

(Electricity in lumbering)

PEREL'MUTER, N.M., kand.tekhn.nauk

Electrification of the Olenino narrow-gauge logging railroad
by a three-phase current of industrial frequency. Trudy
TSNIIME no.34:5-24 '62. (MIRA 16:1)
(Olenino District--Electric railroads)
(Olenino District--Lumber--Transportation)

KASHECHKIN, N.B.; PEREL'MUTER, N.M.; VINOOROV, G.K.; YERMOLAYEV, V.M.;
ITINA, L.S.; MIKHAYLOVSKIY, Yu.V.; BOLDOV, M.Ye.; TSETLIN, A.M.;
ZHURAVLEV, B.A., red.isd-va; BACHURINA, A.M., tekhn.red.

[Handbook for electrical engineers in the lumber industry]
Spravochnik elektromekhanika lespromkhoz. Moskva, Goslesbumizdat,
1958. 320 p. (MIRA 12:4)

1. Nauchnyy i rabotniki Tsentral'nogo nauchno-issledovatel'skogo
instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for
all except Zhuravlev, Bachurina).

(Electric engineering--Handbooks, manuals, etc.)
(Lumbering--Machinery)

PEREL'MUTER, Naum Moiseyevich; ITINA, Liya Solomonovna; KUCHARINA,
Klavdiya Ivanovna; BOLDŮV, Mikhail Yefimovich; ALYAB'YEV,
Viktor Ivanovich; TSETLIN, Aleksandr Mikhaylovich; POYARKOV,
K.M., red.; PITERMAN, Ye.L., red. izd-va; VDOVINA, V.M.,
tekhn. red.

[Electrification of lumbering enterprises] Elektrifikatsia
lesozagotovitel'nykh predpriatii. Moskva, Goslesbumizdat,
1961. 358 p. (MIRA 15:2)
(Electricity in lumbering) (Electric railroads)

PIZHURIN, Andrey Abramovich, kand. tekhn. nauk, dots.; BLITSHTEYN,
Aleksandr Zinov'evich, kand. tekhn. nauk, dots.; SHELKOV,
Vladimir Tikhonovich, kand. tekhn. nauk, dots.; SAKHAROV,
V.V., inzh., retsenzent; TYUKIN, N.N., prepod., retsenzent;
PEREL'MUTER, N.M., red.

[Electrical equipment of the lumber and woodworking indus-
try] Elektrooborudovanie predpriyatii lesnoi i derevo-
obrabatyvayushchei promyshlennosti. Moskva, Lesnaya pro-
myshlennost', 1965. 358 p. (MIRA 18:11)

1. Kostromskiy lesn Mekhanichesk y tekhnikum (for Tyukin).

VOL'FSON, L.G.; MEL'NIKOV, N.N.; PLATE, A.F.; PEREL'MUTER, P.M.;
VOLADKOVICH, S.D.; PRYANISHNIKOVA, M.A.; LEBEDEVA, K.V.;
VOLOSHKEVICH, N.P.

Continuous method for the preparation of aldrin. Khim.prom.
no.10:714-717 0 '62. (MIRA 15:12)
(Aldrin)

PEREL'MUTER, R.Sh.

New design of the noiseless pipe of the supporting unit. Stan.
1 instr. 36 no.7:38 J1 '65. (MIRA 18 8)

PEREL'MUTER, R. Sh., Engineer

Nizhnetagil'sk Plant imeni Komintern(-1945-)

"An Improved Design of Cluster Gear Shifting in the Gear Box of the D1P30 and D1P20 Lathes"
Stanki I instrument, 17, Nos. 7-8, 1946.

BR-52059019

87958

S/115/60/000/012/011/018
B021/B058

9.13/0

AUTHOR: Perel'muter, S. S.

TITLE: Measurement of the Reverse Leakage of Ferrite Valves

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 12, pp. 38-39

TEXT: The quality of ferrite valves is determined by the leakages caused by direct and reverse directions. The direct leakages usually amount to a few tenths of decibel, the reverse ones, however, exceed 10 to 15 db. The direct leakages are measured by the substitution method, the reverse leakages usually by means of standard attenuators. The simplified block diagram of the measuring installation used for it is shown in the figure. The measurements are made quickly and with an error of < 1 db for leakages of up to 25 db, as may be seen from the mathematical equations given next. A measurement error of the parameter need not be considered for attenuations of up to 25 db. The error owing to generator mismatch and leakages in the piston proved to be negligible. In the method described, the probe is stationary and the quality of the measuring circuit is thus without effect on the precision of measurement. The use of a phase shifter with

Card 1/2

87958

Measurement of the Reverse Leakage of
Ferrite Valves

S/115/60/000/012/011/018
B021/B058

dead end in place of the piston may prove to be of advantage in some cases. This method may be used not only for ferrite valves, but also for measuring other reversible installations (such as circulators) and some SHF signal transmission channels. There are 1 figure and 2 Soviet references.

Card 2/2

23608

S/008/61/000/006/004/008
D201/D305

9.1300

AUTHOR: Perel'muter, S.S.

TITLE: Ferrite wave filters of smaller overall dimensions and weight

PERIODICAL: Radiotekhnika, no. 6, 1961, 34 - 37

TEXT: This paper was presented in May 1960 at the Vsesoyuznaya nauchnaya sessiya NTORiE im A.S. Popova (All-Union Scientific Session of the NTOR and E im. A.S. Popov) during the celebrations of Radio Day. In multi-channel telephony with F.M. and frequency compression the requirements as to the ferrite wave filter matching properties are very stringent, e.g. in the radio relay installations type P - 600 (R-600) in the frequency band of 3,400 - 3,900 mc/s, as used for the simultaneous transmission of 600 telephony channels, the SWR of ferrite wave filters has to be not more than 1.05. In installations now being designed the matching of wave filters is to be even better. In wave filters of earlier de-

Card 1/5

23608

S/108/61/000/006/004/008
D201/D305

Ferrite wave filters of ...

sign (Ref. 1: A.L. Mikaelyan, and A.K. Stolvarov, Radiotekhnika, vol. 12, no. 10, 1957) good matching was achieved by the use of long matching wedges in ferrite and of an activating dielectric strip; this design used to present difficulties in proper matching within the pass-band and mechanical construction. In the present article, the author describes a wave filter of small dimensions and weight which is free from the disadvantages mentioned above. The construction of this wave filter is given in Fig. 1. The ferrite here is shorter than the dielectric strip and has no matching tapered terminations and is thus better utilized along all of its length, l_2 . Initial matching of the ferrite strip to the wave guide is achieved by proper choice of ferrite and dielectric strip dimensions; those of the shape and length of the tapered termination l_3 are not critical. Exact matching is done by adding dielectric compensating strips at both ends of the ferrite, their exact position being determined experimentally during the preparation of the ferrite strip. In a complete arrangement the final fine matching adjustments can be made, if required, by introducing into the wave

Card 2/6

23608

S/108/61/000/006/004/008

D201/D305

Ferrite wave filters of ...

guide additional dielectric strips as shown in Fig. 1 by a broken line. The construction described above permitted a decrease in the overall dimensions of the wave filter 1.5 - 2 times compared to the dimensions of filters built according to earlier methods. The wave filters used in the antenna feeder of the installation P-600 (R-600) and used within the installation proper are designed for dimensions 10 x 61 mm. Overall length of the filter is 140 mm, the length of ferrite about 70 mm, that of poles about 90 mm. The model of a wave filter for a narrower frequency band has an overall length of 75 mm with the length of ferrite about 30 mm. The dielectric strip and compensating strips are mycalex ($\epsilon \approx 7$, $\text{tg} \delta \approx 0.5 \times 10^{-3}$). The ferrite type 78 requires for the ferromagnetic resonance a magnetic field of about 600 oersted. This field is adjusted by proper spacing of poles with properly spaced grooves. Fig. 3 shows the electric characteristics of the ferrite for the cross-section 10 x 61 mm for a constant magnetic field (solid lines) and at tuning for resonance at a given frequency (broken lines). It may be seen from Fig. 3 that within the working of fre-

Card 3/6

23608

S/108/61/000/006/004/008

D201/D305

Ferrite wave filters of ...

quency band (3,400 - 3,900 Mc/s) the SWR does not exceed 1.05. The comparatively small dimensions of the wave filter are due to the large attenuation parameter of the ferrite used ($\delta \approx 0.2$). The sharp decrease in reverse losses at frequencies above 4,300 mc/s is explained by the presence of higher order oscillations. To decrease the influence of the ambient temperature either short tapers can be used for ferrite or special magnetic shunts in the magnetic system, whose saturation depends on temperature (Ref. 3: The microwave journal, v. 3, no. 8, 1960). Since in the application of such filters to radio relay communication systems and to measurements, the power involved does not exceed a few watts, the heating of ferrite is negligible and practically does not affect the characteristic of the filter. It is stated in conclusion that the dielectric compensating strips described above could be used in other types of ferrite inserts and wave filters to improve matching within a given frequency band. There are 3 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Microwave journal,

Card 4/6

23608

S/108/61/000/006/004/008
D201/D305

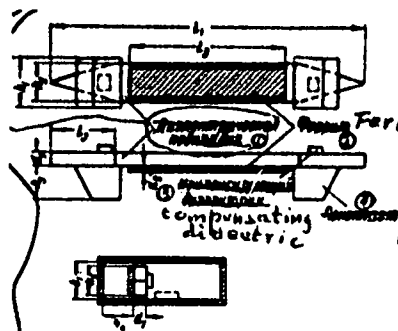
Ferrite wave filters of ...

v. 3, no. 8, 1960.

SUBMITTED: June 10, 1960

Fig. 1

Legend: 1 - Dielectric strip;
2 - ferrite; 3 - compensating
dielectric; 4 - foam plastic.



Card 5/6

L 27573-66

ACC NR: AP6018182

SOURCE CODE: UR/0103/66/000/002/0123/0124

AUTHOR: Perel'man, L. M. (Khar'kov)

27
B

ORG: none

TITLE: Analysis of a combined system of control with automatic adjustment of the disturbance regulator

SOURCE: Avtomatika i telemekhanika, no. 2, 1966, 123-128

TOPIC TAGS: perturbation, automatic control

ABSTRACT: A system of disturbance regulation with automatic tuning of the amplification factor of the regulator is analyzed, in which, in order to reduce the error caused by non-controlled perturbations, a deviation regulator is also introduced. Formulas are derived and graphs are constructed for selection of the parameters of the deviation regulator. The addition of the second regulator also reduces errors caused by failure of the system to preserve full invariance relative to the primary perturbation. Orig. art. has: 3 figures and 28 formulas. (Based on author's Eng. abstr.) [JPRS]

SUB CODE: 13 / SUBM DATE: 12Jul65 / ORIG REF: 003 / OTH REF: 001

Card 1/1 CV

UDC: 62-50:681.142

GAVANIN, V.A.; PEREL'MUTER, V.S.; RYBKINA, E.I.; SOKOLOVA, N.S.

Indicators of a glow-discharge. (Review). Prib. 1 tekhn.
eksp. 10 no.5:12-20 S-O '65. (MIRA 19:1)

1. Moskovskiy elektrolampovyy zavod. Submitted November 20,
1964.

PEREL'MUTER, Ye.; BATYAN KOV, Sh. (Yangi-Yul', Uzbekskaya SSR)

We are improving the methods of conducting the classes. Prof.-tech.
obr. 21 no.2:19-20 F '64. (IJA 17:9)

1. Zamestitel' direktora professional'no-tekhnicheskogo uchilishcha
- g. Yangi-Yul', Uzbekskaya SSR (for Perel'muter).

YASINOVSKIY, M.A., prof.; PEREL'MUTER, Ye.A., kand.med.nauk

Acute psychotic outbursts in the late stages of rheumatic fever.
Vop.revme. 1 no.4:87-91 O-D '61. (MIRA 16:3)

1. Iz gosspital'noy i fakul'tetskoy terapevticheskikh kliniki
(zav. - prof. M.A. Yasinovskiy) i psikhiatricheskoy koiniki
(zav. - prof. L.A. Mirel'zon) Odesskogo meditsinskogo insti-
tuta (dir. - prof. I.Ya. Deyneka).
(RHEUMATIC FEVER) (HALLUCINATIONS AND ILLUSIONS)

PEREL'MUTR, A.S.; TRAKSLER, A.G.,

Universal inhaler UI-2. Nov. med. tekhn. no. 1:3-10 '60.
(MIRA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.
(INHALATION THERAPY—EQUIPMENT AND SUPPLIES)

PEREL'MUTR, A.S.; KOLOKOLOVA, T.D.

Resistance of elements of a respiratory apparatus in pulsating
current. Med. prom. 15 no.8:18-25 Ag '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.
(RESPIRATORS)

KABATOV, Yu.F.; PEREL'MUTR, A.S.; MISHIN, L.N.; GUREVICH, M.D.

Medical instruments of the German Federal Republic and Holland.
Med. prom. 15 no.3:54-58 Mr '61. (MIRA 14:5)
(MEDICAL INSTRUMENTS AND APPARATUS)

KABATOV, Yu.F.; PEREL'MUTR, A.S.

Apparatus for anesthesia. Med.prom. 15 no.5:30-34 My '62.
(MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.
(ANESTHESIOLOGY--EQUIPMENT AND SUPPLIES)

PEREL'MUTR, A.S.; KABATOV, Yu.F.

Anesthetic apparatus in foreign countries. Med.prom. 15 no.5:
55-59 My '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.
(ANESTHESIOLOGY—EQUIPMENT AND SUPPLIES)
(ANESTHESIA)

PEREL'MUTR, A.S.; KATSUBA, M.N.; KSANDROVA, S.Ye.

Universal pneumotachograph. Med. prom. 15 no. 4:43-48 Ap '61.
(MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.
(RESPIRATION) (PHYSIOLOGICAL APPARATUS)

YUREVICH, Vladimir Markovich; PEREL'MUTR, Aleksandr Semenovich;
GOLOGORSKIY, V.A., red.

[Anesthesia and anesthetic apparatus] Narkoz i narkoznye
apparaty. Moskva, Meditsina, 1965. 219 p.

(MIRA 18:6)

PEREL'MUTR, A. S.; KATSUBA, M. N.; KSANDROVA, S. Ye.

Universal pneumotachograph. Nov. med. tekhn. no.1:18-37 '61.
(MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

(RESPIROMETER)

PEREL'NUTR, A.S.

Modern inhalation apparatus. Med.prom. 12, no.7:10-20 JI '58
(MEDICAL INSTRUMENTS AND APPARATUS) (MIRA 11:8)
(INHALATION THERAPY)

PEREL MUTR, A. S.
USSR / Human and Animal Physiology. Metabolism.

T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 69782
Author : Botchal, B. Ye.; Ksandrova, S. Ye.; Nemerovskiy, L. I.;
Perel'mutr, A. S.
Inst : Not given
Title : Apparatuses for Determining Gas Exchange
Orig Pub : Materials on Metabolic Experiments and Scientific
Achievements in the Medical Industry, 1957, No 4 (23),
56-73
Abstract : A description and comparative characterization of the
existing types of Soviet and foreign apparatuses for
studying human gas exchange.

Card 1/1

14

PEREL'MUTER, V.S.; YABLONSKIY, F.M.; YANKIN, G.M.

Glow-discharge digital indicator. Radiotekhnika 15 no.12:77-79
D '60. (MIRA 14:9)

1. Deystvitel'nyye chleny Nauchno-tekhnicheskogo obshchestva
radiotekhniki i elektrosvyazi imeni Popova.
(Electronic calculating machines--Input-output equipment)

CHERKASSKAYA, A.R.; ~~PERELJUTER~~, Ye.A.; TOKAREVA, R.O.

Pneumoencephalographic studies in organic psychoses in
childhood and adolescence. Zhur. nevr. i psikh. 64 no.7:
1070-1073 '64. (MIRA 17:12)

1. Kafedra psikhatrii (zaveduyushchiy - prof. L.A. Mirel'zon)
Odesskogo meditsinskogo instituta i Odesskaya oblastnaya psikh-
nevrologicheskaya bol'nitsa (glavnyy vrach F.K. Filyanovskiy).

PEREL'NUTER, I. I.

Luting preparation for seams and linings. I. I. Perel'-
nuter, U.S.S.R. 64,688, April 30, 1945. To a heated
alkyd resin is added the condensation product of anhydros-
or-malechide-aniline in the presence of phthalic anhy-
dride. This prepn. is suitable for luting and lining metal,
wood, fiber, cardboard, etc., used for holding water, oil,
gasoline, kerosene, or turpentine. The prepn. forms a
permeable seal and acts as a corrosion inhibitor. M. H.

PEREL'NUTER, I. I.

Luting preparation for seams and linings. I. I. Perel'-
nuter. U.S.S.R. 64,682, April 30, 1945. To a heated
alkyl re- in is added the condensation product of anhydrous
phthalic anhydride-aniline in the presence of phthalic anhy-
tride. This prepn. is suitable for luting and lining metal,
wood, fiber, cardboard, etc., used for holding water, oil,
engine, kerosene, or turpentine. The prepn. forms a
terro- and acts as a corrosion inhibitor. M. H.

MANDEL'TSVEYG, V.B. (Moskva); PERELOGOV, A.M. (Moskva)

Recent data on resonance. Priroda 53 no. 11:64-66 '64.

(MIRA 18:1)

KOCHO, V.S.; GRANKOVSKIY, V.I.; PERELOMA, V.A.; ANTOSYAK, V.G.; DRYAPIK,
Ye.P.; TEPLITSKIY, B.M.; GLOBA, N.I.; STREL'CHENKO, Yu.G.

Temperature conditions of an open-hearth furnace heated with
selfcarburetting natural gas. Stal' 24 no.10:892-893 0 '64.

(MIRA 17:12)

1. Kiyevskiy politekhnicheskii institut i Kommunaraskiy metallurgicheskii
zavod.

KOCHO, V.S.; GRANKOVSKIY, V.I.; PERELOMA, V.A.; NAYDEK, V.L.; PRYADKIN,
L.I.; KULIKOV, V.O.; PRIKHOZHENKO, A.Ye.; GRYZLOV, Ye.G.

Investigating heat transfer in very high capacity open-hearth
furnaces. Stal' 25 no.12:1081-1085 D '65. (MIRA 18:12)

1. Kiyevskiy politekhnicheskii institut i Zhdanovskiy metallurgi-
cheskiy zavod im. Il'icha.

KOCHO, V.S., doktor tekhn. nauk; GRANKOVSKIY, V.I.; PERELOMA, V.A.;
NAYDEK, V.L.; PRYADKIN, L.L.; GLOBA, N.I.; MOSIASHVILI, V.V.

Intensification of the operation of open-hearth furnaces by the
combined feeding of oxygen and compressed air. Met. i gornorud.
prom. no.3:75-76 My-Je '65. (MIRA 18:11)

KOCHO, V.S.; GRANKOVSKIY, V.I.; PERELOMA, V.A.

Automatic pressure control in open-hearth furnaces. Izv.vys.
ucheb.zav.; chern. met. 8 no.4:212-215 '65.

(MIRA 18:4)

1. Kiyevskiy politekhnicheskii institut.

KOCHO, V.S., doktor tekhn. nauk; GRANKOVSKIY, V.I., kand. tekhn. nauk;
PERELOMA, V.A., inzh.; DRYAPIK, Ye.P., inzh.; STREL'CHENKO,
Yu.G., inzh.

Selecting an impulse to evaluate the pressure in the hearth
of an open-hearth furnace. Met. i gornorud. prom. no.1:63-66
Ja-F '62. (MIRA 16:6)

1. Kiyevskiy politekhnicheskii institut (for Kocho, Grankovskiy,
Pereloma). 2. Kommunaraskiy metallurgicheskii zavod (for Dryapik,
Strel'chenko).

(Open-hearth furnaces) (Gas flow)

KOCHO, V.S.; GRANKOVSKIY, V.I.; PERELOMA, V.A.; NAYDEK, V.L.

Dynamic characteristics of open-hearth furnaces according to
pressure in the melting zone. Izv.vys.ucheb.zav.; Chern.mst. 4
no.6:168-172 '61. (MIRA 14:6)

1. Kiyevskiy politekhnicheskii institut.
(Open-hearth furnaces)

GRIBOV, V.N.; ZEL'DOVICH, Ya.B.; PERELCMOV, A.M.

Maximum charge for a given mass in the bound state. Zhur. eksp.
i teor. fiz. 40 no.4:1190-1198 Ap '61. (MIRA 14:7)
(Nuclear reactions) (Particles (Nuclear physics))

L 36126-66 EWT(1) AT

ACC NR: AP6018819

SOURCE CODE: UR/0056/66/050/005/1393/1409

AUTHOR: Perelomov, A. M.; Popov, V. S.; Terent'yev, M. V.

ORG: none

TITLE: Ionization of atoms in an a-c field

SOURCE: Zh. eksper. i teor. fiz., v. 50, no. 5, 1966, 1393-1409

TOPIC TAGS: atom, ionization, approximation method, adiabatic approximation, bound state, electromagnetic wave polarization, Coulomb interaction, alternating current

ABSTRACT: A method has been developed for calculating the ionization probability of the bound state under the effect of an a-c field. The method is valid under the conditions $F \ll F_0$, $\omega \ll \omega_0$ (ω and F are the frequency and amplitude of the external field, $\omega_0 = \chi^2/2$ and $F_0 = \chi^3$ are the respective atomic quantities). The quasi-classical nature of the motion of a particle in a homogeneous electric field has been exploited in the method which extends the usual quasi-classical approximation to the nonstationary case. The adiabatic approximation

Card 1/2

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in the ionization problem has been first considered (for a frequency range $\omega \ll \omega_t$, where $\omega_t = F/\chi$ is the tunnel frequency). Formulas for the probability of ionization of an arbitrary atom by the field of a plane or elliptically polarized wave have been derived. The model problem of ionization of a bound state in a one-dimensional potential has been investigated in detail for arbitrary values of the "adiabaticity parameter" $\gamma = \omega/\omega_t$. Formulas have been derived for the probability of ionization of an arbitrary bound state under the action of an a-c field. The cases of plane and circular polarization of electromagnetic waves have been considered (Coulomb interaction between electron and atomic cores at large distances ($\chi r \gg 1$) has been disregarded. The total ionization probability can be expressed as the sum of multiphoton processes. Within the low-frequency limit ($\omega \ll \omega_t$), the formulas obtained become adiabatic approximation formulas. Orig. art. has: 75 formulas. [Based on authors' abstract] [AM]

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L 11049-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD
ACC NR: AT6002503

SOURCE CODE: UR/3138/65/000/378/0001/0022

AUTHOR: Perelomov, A. M.; Popov, V. S.

ORG: none

TITLE: Latent symmetry of the hydrogen atom 21, 14, 15

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 378, 1965. O skrytoy simmetrii atoma vodoroda, 1-22

TOPIC TAGS: particle symmetry, unitary symmetry, quantum number, hydrogen, particle physics

ABSTRACT: Previous studies have shown that all states of the discrete spectrum of the hydrogen atom may be described by irreducible representations of the group $O(4)$. The authors consider extension of this concept within the framework of group theory for a unified description of both the discrete and continuous spectrum. This cannot be achieved in $O(4)$ symmetry since all its irreducible representations are finite-dimensional (as those of any compact group, i. e. of any continuous group with finite volume). Therefore the "complete" group for dynamic symmetry covering both

Card 1/2

FERELONOV, A.M.; POPOV, V.S.

Geometrical method for decomposing the groups $SU(4)$ and $SU(3)$
in the subgroups $SU(2) \otimes SU(2)$ and $O(3)$. Izv. fiz. 2 no.4:
738-747 0 '65. (MIRA 18:11)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarst-
vennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.